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| _        |   |           |          |           |      |          |            |                | ٠            | IS        | SUI          | E S  | LIP      | ST       | APL        | .E /      | \RE  | A (f   | or a         | ddi           | tiona    | al cı          | os:          | s-re | fere     | nces       |               |          |  |               |                 |                |                     |          |                 |  |
|----------|---|-----------|----------|-----------|------|----------|------------|----------------|--------------|-----------|--------------|--|----------|----------|------------|-----------|--|--|--------------|---------------|----------|----------------|--------------|------|----------|------------|---------------|----------|--|---------------|-----------------|----------------|---------------------|----------|-----------------|--|
| 1        |   |           | _        | _         | -    | <u> </u> |            |                |              |           | _            | ISSUING CLASSIFICATION  CROSS REFERENCE(S) |          |          |            |           |  |  |              |               |          |                |              |      |          |            |               |          |  |               |                 |                |                     |          |                 |  |
| ŀ        | ORIGINAL CLASS SUBCLASS  INTERNATIONAL CLASSIFICATION |           |          |           |      |          | ╄          | _              |              |           | _            |  |          |          |            | RC        | SS   | R  | FE           | R             | ENC      | E(S            | 厂            |      |          |            |               |          |  |               | $\Box$          |                |                     |          |                 |  |
| ŀ        |   | <u>√L</u> | ./\i     | <u> </u>  | _    | ┿        | <u>. U</u> | <u>ب</u> ه     | LAS          | <u>ာဒ</u> | 1            | Ų  | LAS      | <u>S</u> | +          |           |  |  | JUE          | CL            | AS:      | 30 (ONE SUBCLA |              |      |          | CLA        | SS PER BLOCK) |          |  |               |                 |                | _                   | _        |                 |  |
| L        |   | _         |          |           |      |          |            |                |              |           | L            |  |          |          |            |           |  |  |              |               |          |                |              |      |          |            |               |          |  |               |                 |                | l<br>L              |          |                 |  |
|          |   |           |          |           |      |          |            |                |              |           |              |  |          |          |            |           |  |  |              |               |          |                |              |      |          |            |               |          |  |               |                 | $\exists$      |                     |          |                 |  |
|          | <del></del>   |           |          |           |      |          |            |                |              | 1         |              |  |          |          |            | $\dagger$ |  |  | $\dagger$    |               |          | -              |              |      |          |            | $\dashv$      |          |  | $\dashv$      |                 |                |                     |          |                 |  |
| ŀ        | $\downarrow$  | 1         | 4        |           | L    |          |            | <u></u>        |              |           |              |  |          |          |            |           |  |  |              |               |          |                |              |      |          |            |               |          |  |               |                 |                |                     |          |                 |  |
| -        | +   | ł         | +        |           | _    |          |            | <u> </u><br> - |              |           |              |  |          |          | ╀          |           |  | -  |              | _             | +        |                |              | +    |          |            |               |          | _  |               |                 | 4              | <del></del>         |          | 4               |  |
| L        | 土   | $\dagger$ |          |           |      |          |            | ī              |              | _         |              |  |          |          |            |           |  |  |              | ^             | Co       | ntin           | ue           | d o  | n Is     | sue        | Slip          | o In     | sid  | e F           | ile             | l<br>Jac       | kef                 | <u> </u> | $\dashv$        |  |
|          | 1   |           | ••••     |           |      | Rej      | ect        | ed             | - (T         | Thro      | ugh          | ทน   | men      | al)      | . Ca       | nce       | eled   |  | CI           | AI!           | MS       |                |              | Nor  | n-ele    | cted       | A             |          |  |               | Apr             | eal            |                     |          |                 |  |
| <u></u>  | =<br>aim  |           |          | •••••     | •••• | Allo     |            | d<br>)ate      |              |           | •••••        | i'''                                       | <u> </u> | im       | . Re       | stri      | cted   | <u> </u>   | D-           |               | ••••     |                |              | Inte | erfere   | псе        | ٥             |          | ·····  |               | Ob              | ecte           | <u>₃d</u>           |          | _               |  |
| ┪        | Т   | 7         | क्षा     |           | f    | Γ        | T          | T              | Ή-           | Г         | Т            | 1  |          | т —      | +          | Т         | т-   | $\overline{}$                                    | Da           | 16            | Г-       | <del></del>    | _            | 1    |          | eim<br>I   | $\vdash$      |          | _  |               | ate             | _              | ,                   |          | ႕               |  |
| Final    | Original  | 1         | 3        |           |      |          |            |                |              |           |              |  | Final    | Original |            |           |  |  |              |               |          |                |              |      | Final    | Original   |               |          |  |               |                 |                |                     |          |                 |  |
| L        | 1   | 1         | V        |           |      |          |            | L              |              |           |              |  |          | 51       |            |           |  |  |              |               |          |                |              | 1    | -        | 101        | $\vdash$      | ┝        | -  | $\vdash$      | H               | $\vdash$       | Н                   | -        | Н               |  |
| H        | 3   | 4         | 4        |           | L    | $\vdash$ | L          | $\perp$        | $\vdash$     | $\vdash$  | $\vdash$     |  |          | 52       |            | L         |  | F  |              |               |          |                |              | ]    |          | 102        |               |          |  |               |                 |                | 口                   |          | 口               |  |
| $\vdash$ | 4   | -         | 쉬        | _         | -    | $\vdash$ | $\vdash$   | +              | +            | -         | ├            | 1  | $\vdash$ | 53<br>54 | -          | $\vdash$  | ┼  | 1  | -            | $\vdash$      | -        | -              | $\vdash$     | -    | $\vdash$ | 103        | H             | $\vdash$ | $\vdash$   | -             | $\vdash$        |                | $\vdash$            | Н        | Н               |  |
| L        | <b>5</b>  | 1         | 7        |           |      |          |            | T              | 1            |           |              | 1  | H        | 55       | T          | $t^{-}$   | t  |  | 1            | -             | $\vdash$ | -              | $\vdash$     | 1    | $\vdash$ | 105        | $\vdash$      | $\vdash$ | <del>                                     </del> | $\vdash$      | -               | $\vdash$       | Н                   | H        | $\vdash \vdash$ |  |
| L        | 6   | _         | Į,       | _         |      |          | Г          | F              | L            |           |              | 1  |          | 56       | L          |           |  |  |              |               |          |                |              | 1    |          | 106        |               |          |  |               |                 |                |                     |          | 口               |  |
| L        | 7 8   | 4.        | 4        | _         | -    | ├        | ╀          | ╀              | ╄            | H         | ├-           | -  | -        | 57<br>58 | -          | ├-        | -  | -  | -            | _             | <u> </u> | ļ              | L            | -    | <b></b>  | 107        | _             |          |  | _             |                 |                | П                   |          |                 |  |
| ┝        | 9   |           | ┪        | _         | -    | ╁        | ┝          | ╁╴             | ┢            | ┝         | ┢            | 1  | -        | 59       | ┝          | ⊢         | ╁  | ├  | ⊢            | ├             | -        | -              |              | ┨    | $\vdash$ | 108<br>109 | -             | -        | H  | -             |                 | $\vdash$       | $\vdash$            |          | Н               |  |
|          | 10  | _         | 1        |           | Ш    |          | T          |                |              |           | <u> </u>     |  |          | 60       |            | T         | $\vdash$   | T  | _            | -             | $\vdash$ |                | -            | 1    | $\vdash$ | 110        | Н             | -        | $\vdash$   | -             | $\vdash$        |                | Н                   | Н        | Н               |  |
|          | 11  |           | 4        |           |      |          | L          | ļ.,            |              | L         | lacksquare   |  |          | 61       |            | L         |  |  |              |               |          |                |              | 1    |          | 111        |               |          |  |               |                 |                |                     |          |                 |  |
| H        | 13  | . t.      | $\dashv$ |           | H    | ┼        | ├          | ╀              | ┾            | -         | ╁            | 1  | $\vdash$ | 62<br>63 | ├          | H         | ┝  | -  | -            | ┡             | _        | $\vdash$       | _            | ┨    | <u> </u> | 112<br>113 | -             |          | L  | ļ_            | L               | لـــا          | Н                   | $\vdash$ | $\vdash \dashv$ |  |
| H        | 14  | _         | 1        | _         | Н    | t        | $\vdash$   | t              | ╁            | -         | ┢            | 1  | H        | 64       | $\vdash$   | $\vdash$  | ┢  | -  | <del> </del> | ┝             |          | -              | $\vdash$     | ┨    | -        | 114        | -             |          | H  | -             | $\vdash$        | Н              | $\vdash$            |          | Н               |  |
| L        | 15  | _         | $\Box$   |           |      |          |            | L              |              |           |              | 1  |          | 65       |            |           |  |  |              |               |          |                |              | 1    |          | 115        |               |          | $\vdash$   | <del>-</del>  | Н               | М              | Н                   |          | H               |  |
| H        | 16  | _         | 4        |           | _    | H        | ┞          | ╀              | ╀            | L         | ┞            |  | $\vdash$ | 66<br>67 | <u> </u> _ | _         | ļ  | _  | _            | _             | _        |                | L            | -    |          | 116        |               | П        |  |               |                 |                | П                   |          |                 |  |
| H        | 18  |           | +        | _         | -    | $\vdash$ | ┢          | +              | ╁            | -         | ┝            | ſ  | $\vdash$ | 68       | ┢          | -         | ┢  | ┝  | H            | -             | -        | -              | <del> </del> | 1    | -        | 117<br>118 | $\vdash$      | -        | Н  | -             | H               | Н              | Н                   | $\vdash$ | $\vdash$        |  |
|          | 15  |           |          |           |      |          |            |                | L            |           |              | 1  |          | 69       |            |           | $\Box$   |  |              |               |          |                |              | 1    |          | 119        |               |          | Н  | $\vdash$      |                 | Н              | Н                   | М        | Н               |  |
| ļ_       | 20  | .1_       | 4        |           |      | L        | ┞          | ╀              | -            | _         | _            | -  | L        | 70       | L          | L.        | L  |  |              |               |          |                |              |      |          | 120        |               |          | Ш  |               |                 |                |                     |          |                 |  |
| ┝        | 22  |           | +        | -         |      | ┢        | ┝          | ╁              | ╁            | -         | ├            | 1  | $\vdash$ | 71       | -          | ├-        | ├-   | -  | <u> </u>     | -             |          | _              | -            | 1    | -        | 121<br>122 |               |          |  | H             | H               | H              | $\vdash$            | Н        | Н               |  |
|          | 23  |           | 1        |           |      |          |            |                | İ            |           |              |  |          | 73       | $\vdash$   | H         | $\vdash$   |  | _            |               | -        |                |              | 1    | $\vdash$ | 123        | -             |          |  | -             | -               |                |                     | Н        | Н               |  |
| Ļ.       | 24  | 1         | 4        | $\Box$    |      | L        |            | L              | L            |           |              |  |          | 74       |            |           |  |  |              |               |          |                |              |      |          | 124        |               |          |  |               |                 |                |                     |          |                 |  |
|          | 25<br>26  |           | +        | -         |      | ├-       |            | $\vdash$       | ╀            | ┞         | -            | 1  | $\vdash$ | 75<br>76 | -          | <u> </u>  | L  | <b> </b>   | _            | -             | <u> </u> | _              |              |      | -        | 125<br>126 |               | Ш        | Ш  | ļ             | ļ               |                | Ш                   |          | Н               |  |
|          | 27  | 1         | †        | $\exists$ | _    |          |            | t              | $\perp$      |           |              | 1  |          | 77       | -          | $\vdash$  | -  | $\vdash$   | -            | $\vdash$      | -        | $\vdash$       | -            | 1    | H        | 127        | Н             | Н        | $\vdash$   | $\vdash$      | $\vdash$        | $\vdash\vdash$ | $\vdash$            | H        | Н               |  |
| Ĺ        | 28  |           | 1        |           |      | $\Box$   |            | Г              | Г            | L.        |              |  |          | 78       |            |           |  |  |              |               |          |                |              | 1    |          | 128        |               |          |  |               |                 |                |                     |          | 口               |  |
| <u> </u> | 29<br>30  |           | +        | $\dashv$  |      | -        | $\vdash$   | +              | $\vdash$     | -         | -            | 1  | $\vdash$ | 79<br>80 | -          | -         | -  | -  | $\vdash$     | _             | <u> </u> | <u> </u>       | _            | -    | $\vdash$ | 129<br>130 | H             | Щ        | $\vdash$   | ļ             | H               | Щ              | Щ                   |          | $\square$       |  |
| H        | 31  | 1         | _†       |           | _    |          | $\vdash$   | T              | $t^-$        | ┢┈        | -            |  | $\vdash$ | 81       | -          | $\vdash$  | <del> -</del>                                      | <del>                                     </del> | $\vdash$     | <u> </u>      |          | H              | -            | 1    | $\vdash$ | 131        | H             | Н        |  | <del> </del>  | H               | $\vdash$       | Н                   | $\vdash$ | Н               |  |
|          | 32  |           | 1        | $\Box$    |      |          |            |                |              |           |              | 1  |          | 82       |            |           |  |  |              |               |          |                |              | 1    |          | 132        |               |          |  |               |                 |                |                     |          | $\Box$          |  |
| L        | 33  | _1        | +        | 4         | _    | <u> </u> | _          | -              | -            | -         | <u> </u>     | -  | L        | 83<br>84 | L          | <u> </u>  | L  |  |              | $\sqsubseteq$ | Ц        |                |              | -    |          | 133<br>134 |               | $\Box$   | П  |               |                 | П              | 口                   | П        | П               |  |
| -        | 35  |           | +        | $\dashv$  |      | $\vdash$ | -          | $\vdash$       | $\vdash$     | $\vdash$  | -            | 1  | -        | 85       | $\vdash$   | -         | -  | -  | -            | <u> </u>      | Н        |                | _            | 1    | -        | 134        | H             | Н        | Н  | -             | $\vdash$        | $\vdash$       | ┝╌┤                 | $\vdash$ | Н               |  |
|          | 36  |           | 1        |           | _    |          |            |                |              |           |              | 1  |          | 86       |            |           |  |  |              |               |          |                |              | 1    |          | 136        | Ħ             |          |  |               | Н               |                | П                   |          | Н               |  |
| L        | 37<br>38  |           | 4        | _         |      | <u> </u> | _          | 1              | <u> </u>     | <u> </u>  | <u> </u>     |  | L        | 87<br>88 | L          |           | L  | L  | oxdot        |               | П        |                |              |      |          | 137        | П             |          |  | $\sqsubseteq$ |                 |                | П                   |          | 口               |  |
| -        | 39  |           | +        | -         |      | -        | $\vdash$   | +-             | $\vdash$     |           | <del> </del> | 1  | -        | 89       | $\vdash$   | -         | -  | $\vdash$   | $\vdash$     |               | Н        |                |              | 1    | -        | 138<br>139 | H             | $\dashv$ | $\vdash$   | $\vdash$      | Н               | $\vdash$       | $\vdash$            | Н        | Н               |  |
|          | 40  | t         | T        |           |      |          |            | T              |              |           |              |  |          | 90       | $\vdash$   | t         |  |  |              |               | Н        | Н              | -            | 1    | $\vdash$ | 140        | Н             | H        |  | $\vdash$      | H               | $\vdash$       | $\vdash$            | $\vdash$ | Н               |  |
|          | 41  | _         | I        | $\Box$    |      |          |            | L.             |              |           |              |  |          | 91       |            |           |  |  |              |               |          |                |              |      |          | 141        |               |          |  |               |                 |                | 口                   |          | 口               |  |
| _        | 42  |           | +        | -         | _    | -        | H          | ⊢              | <del> </del> |           | $\vdash$     |  | $\vdash$ | 92<br>93 | $\vdash$   | <u> </u>  | -  | -  | _            | <u> </u>      | Н        | H              |              | -    | Ш        | 142<br>143 | $\sqcup$      | Н        |  | ļ             |                 |                | $\vdash \downarrow$ |          | Ц               |  |
| _        | 44  | 1_        | +        | -         | -    | -        | -          | 1              | $\vdash$     | -         | $\vdash$     |  | $\vdash$ | 94       |            | $\vdash$  | $\vdash$   | -  | <del> </del> |               | -        | -              |              | 1    | -        | 144        | Н             | Н        | $\vdash$   | -             | $\vdash$        |                | ┝┥                  | $\vdash$ | Н               |  |
|          | 45  |           | 1        |           |      |          |            | L              |              |           |              |  |          | 95       |            |           |  |  |              |               |          |                |              | 1    |          | 145        |               |          |  |               |                 |                |                     |          | $\vdash$        |  |
|          | 46<br>47  | 1_        | 4        | 4         | _    | <u> </u> | L          | L              | $\Box$       |           | L            |  | L        | 96<br>97 |            |           | $ldsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$ |  |              |               |          |                |              | 1    | П        | 146        |               |          |  |               |                 |                | 口                   |          | 口               |  |
| _        | 48  | 1.        | +        | -         |      | -        | $\vdash$   | $\vdash$       | $\vdash$     | H         | -            |  | $\vdash$ | 98       |            | -         | -  |  | H            |               | Н        | $\vdash$       |              | 1    | Н        | 147<br>148 | $\dashv$      | $\dashv$ |  | -             | $\vdash \vdash$ | $\dashv$       | $\dashv$            | Н        | Н               |  |
|          | 49  | t         | 1        | $\exists$ |      |          |            |                |              |           |              |  |          | 99       |            |           |  |  |              |               |          |                |              | 1    | H        | 149        | $\dashv$      | $\dashv$ | Н  |               | $\vdash$        | $\dashv$       | $\dashv$            | Н        | Н               |  |
|          | 50  | Ĺ         | 1        | $\Box$    |      | $\Box$   |            | Ļ              |              |           |              |  |          | 100      |            |           | Ĺ  |  |              |               | Ţ        |                |              | ]    |          | 150        |               |          |  |               |                 |                |                     |          |                 |  |
|          |   |           |          |           |      |          |            | lf             | mo           | re        | tha          | n '  | 150      | cla      | ms         | or        | 9 8  | ctic   | ons          | sta           | ple      | ado            | ditio        | ona  | al sh    | eet        | her           | е        |  |               |                 |                |                     |          |                 |  |

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